

PTO/SB/21 (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM***(to be used for all correspondence after initial filing)*

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/623,170	
	Filing Date	July 18, 2003	
	First Named Inventor	Dana A. Oliver	
	Art Unit	3732	
	Examiner Name	Unknown	
Total Number of Pages in This Submission	12	Attorney Docket Number	5114

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Response  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application)  <input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  <b>Statement Under 37 CFR 3.73(b); Notice of Recordation of Assignment Document; Signature Authority dated December 2, 2003 signed by Thomas J. DesRosier, Senior Vice President of Genzyme Corporation</b>		
<table border="1"><tr><td>Remarks</td><td></td></tr></table>			Remarks	
Remarks				

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Richard D. Allison
Signature	
Date	March 19, 2004

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Michele Silver		
Signature		Date	March 19, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND



**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT**

<b>Application Number</b>	10/623,170
<b>Filing Date</b>	July 18, 2000
<b>First Named Inventor</b>	Dana A. Oliver
<b>Art Unit</b>	3732
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	5114

I hereby appoint:

☒ Practitioners at Customer Number

24536

OR

☒ Practitioner(s) named below:

Name	Registration Number
Richard D. Allison	31,584
Isabelle A.S. Blundell	43,321
Robert J. Cobert	36,108
Thomas J. DesRosier	30,168

Place Customer  
Number Bar Code  
Label here

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☒ Practitioners at Customer Number

24536

OR

Place Customer  
Number Bar Code  
Label here

<input checked="" type="checkbox"/> Firm or Individual Name	Genzyme Corporation				
Address	15 Pleasant Street Connector				
Address					
City	Framingham	State	MA	ZIP	01701-9322
Country	USA				
Telephone	(508) 270-2583	Fax	(508) 872-5415		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

*Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).*

**SIGNATURE of Applicant or Assignee of Record**

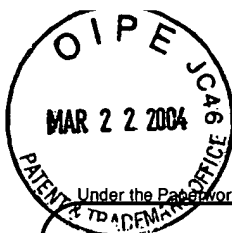
Name	Richard D. Allison, Managing IP Counsel with attached signature authority		
Signature			
Date	March 19, 2004	Telephone	(508) 270-2583

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/81 (05-03)

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**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT**

<b>Application Number</b>	10/623,170
<b>Filing Date</b>	July 18, 2003
<b>First Named Inventor</b>	Dana A. Oliver
<b>Art Unit</b>	3732
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	5114

I hereby appoint:

☒ Practitioners at Customer Number

24536

OR

☒ Practitioner(s) named below:Place Customer  
Number Bar Code  
Label here

Name	Registration Number
Deborah A. Dugan	37,315
Jennifer L. Dupre	41,722
Madge R. Kanter	35,211
Elizabeth Lassen	31,845

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☒ Practitioners at Customer Number

24536

OR

Place Customer  
Number Bar Code  
Label here

<input checked="" type="checkbox"/> Firm or Individual Name	Genzyme Corporation				
Address	15 Pleasant Street Connector				
Address					
City	Framingham	State	MA	ZIP	01701-9322
Country	USA				
Telephone	(508) 270-2583	Fax	(508) 872-5415		

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name	Richard U. Allison, Managing IP Counsel with attached signature authority		
Signature			
Date	March 19, 2004	Telephone	(508) 270-2583

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

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**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT**

<b>Application Number</b>	10/623,170
<b>Filing Date</b>	July 18, 2003
<b>First Named Inventor</b>	Dana A. Oliver
<b>Art Unit</b>	3732
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	5114

I hereby appoint:

☒ Practitioners at Customer Number

24536

OR

☒ Practitioner(s) named below:

Place Customer  
Number Bar Code  
Label here

Name	Registration Number
Bart G. Newland	31,282
Jennifer D. Tousignant	54,498
Y. Philip Zhang	44,372

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

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OR

☒ Practitioners at Customer Number

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OR

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Address					
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Country	USA				
Telephone	(508) 270-2583	Fax	(508) 872-5415		

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**SIGNATURE of Applicant or Assignee of Record**

Name	Richard D. Allison, Managing IP Counsel with attached signature authority
------	---

Signature	
-----------	--

Date	March 19, 2004
------	----------------

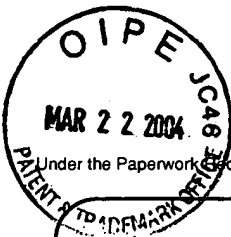
Telephone	(508) 270-2583
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☐ \*Total of \_\_\_\_\_ forms are submitted.

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/82 (05-03)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**REVOCATION OF POWER OF  
ATTORNEY OR  
AUTHORIZATION OF AGENT**

Application Number	10/623,170
Filing Date	July 18, 2003
First Named Inventor	Dana A. Oliver
Art Unit	3732
Examiner Name	Unknown
Attorney Docket Number	5114

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☒ Please change the correspondence address for the above-identified application to:

☒ Customer Number 24536



Place Customer  
Number Bar Code  
Label here

OR

<input checked="" type="checkbox"/> Firm or Individual Name	Genzyme Corporation				
Address	15 Pleasant Street Connector				
Address					
City	Framingham				
Country	USA	State	MA	ZIP	01701-9322
Telephone	(508) 270-2583	Fax	(508) 872-5415		

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☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

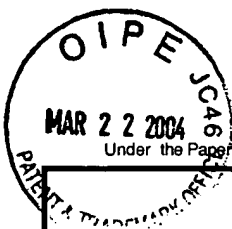
**SIGNATURE of Applicant or Assignee of Record**

Name	Richard D. Allison, Managing IP Counsel with attached Signature Authority signed on December 2, 2003 by Thomas J. DesRosier, Senior Vice President
Signature	
Date	March 19, 2004

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Dana A. OliverApplication No./Patent No.: 10/623,170Filed/Issue Date: July 18, 2003Entitled: TISSUE MEMBRANE FIXATION APPARATUS AND METHODS FOR USE THEREOFGENZYME CORPORATIONa a Massachusetts corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 014297, Frame 0103, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

**[NOTE]:** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.81

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

March 19, 2004

Date

(508) 270-2583

Telephone Number

  
SignatureRichard D. Allison

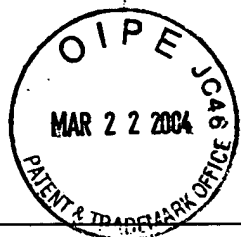
Typed or printed name

Managing IP Counsel with attached  
signature authority

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



5114

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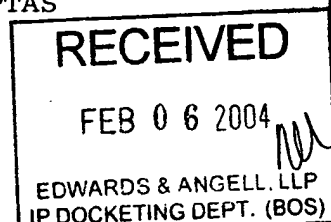
UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 03, 2004

EDWARDS & ANGELL, LLP  
DAVID G. CONLIN, ESQ.  
P.O. BOX 9169  
BOSTON, MA 02209

PTAS



\*102508937A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/18/2003

REEL/FRAME: 014297/0103

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

OLIVER, DANA A.

DOC DATE: 07/15/2003

ASSIGNEE:

GENZYME CORPORATION  
ONE KENDAL SQUARE  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 10623170

FILING DATE: 07/18/2003

PATENT NUMBER:

ISSUE DATE:

LAZENA MARTIN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

07-28-2003



102508937

Attorney Docket No.: 56444(71710)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

1 COVER SHEET  
**ONLY**

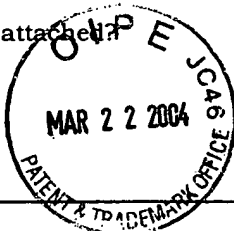
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Dana A. Oliver

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No



3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other:

Execution Date: July 15, 2003

2. Name and address of receiving party(ies):

Name: Genzyme Corporation

Street Address: One Kendall Square

City: Cambridge State: Massachusetts Zip: 02139

Additional name(s) & address(es) attached?

☐ Yes ☒ No

21910 U.S. PTO  
10/623170  
07/18/03

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: July 15, 2003

A. Patent Application No(s): \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David G. Conlin, Esq. (Reg. No.: 27,026)  
Street Address: EDWARDS & ANGELL, LLP  
P.O. Box 9169  
City: Boston State: MA Zip: 02209

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41):.....\$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account for additional or excess fees.

8. Deposit account number: 04-1105

(Attach duplicate copy of this page if paying by deposit account)

07/23/2003 AADOF01 00000020 10623170

02 FC:8021

40.00 00

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9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard J. Roos, Esq. (Reg. No.: 45,053)

Name of Person Signing

Richard J. Roos  
Signature

July 18, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 3



21874



A S S I G N M E N T

I/We, **Dana A. Oliver**, for good and valuable consideration from **Genzyme Corporation** having its principal place of business at **One Kendall Square, Cambridge, Massachusetts 02139** hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in, to and under an application for Letters Patent of the United States Serial No. \_\_\_\_\_ filed on July 15, 2003 for improvements in the **TISSUE MEMBRANE FIXATION APPARATUS AND METHODS OF USE THEREOF**, priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

And for the above consideration I agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States and in any country foreign thereto.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said application, said invention and said patent(s) as may be known and accessible to the undersigned, and will testify as to the same in any interference or litigation related thereto, and will promptly execute and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or said patent(s) in connection with any interference which may be declared, and any litigation concerning this application or any continuation, division or reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.


The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he or she has the full right to convey the entire interest herein assigned,

and that he or she has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) Edwards & Angell, LLP of P.O. Box 9169, Boston, MA 02209, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this 15<sup>th</sup> day of July, 2003.

  
Dana A. Oliver 7/15/2003

State of Florida  
County of Duval ss.

Before me this 15<sup>th</sup> day of July, 2003, personally appeared Dana A. Oliver, who is to me personally known, and acknowledged the foregoing instrument of assignment to be his free act and deed.

  
Notary Public

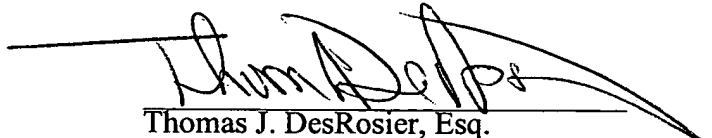


**Genzyme Corporation**  
500 Kendall Street  
Cambridge, MA 02142  
Tel.: (617) 252-7500  
Fax: (617) 252-7553

**SIGNATURE AUTHORITY**

I, Thomas J. DesRosier, Senior Vice President and General Counsel of Genzyme Corporation hereby appoint Madge R. Kanter, Richard D. Allison, Elizabeth Lassen and Bart G. Newland, all Managing Intellectual Property Counsel of Genzyme Corporation, with full power and authority to transact any and all business before the United States Patent and Trademark Office, and any foreign counterpart patent office, with the powers of a Corporate Officer of Genzyme Corporation.

Date: December 2, 2003



Thomas J. DesRosier, Esq.  
Senior Vice President and General Counsel  
GENZYME CORPORATION